



KERALA GAZETTE

കേരള ഗസറ്റ്

PUBLISHED BY AUTHORITY

ആധികാരികമായി പ്രസിദ്ധപ്പെടുത്തുന്നത്

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PART III

Stores Purchase

Fire Force Department

SHORT TENDER NOTICES

(1)

No. FI-160/2012.

4th October 2012.

Sealed tenders are invited for the Fabrication of 14 Nos. of Mini Water Tender based on Water Mist Technology (Quick Response Vehicle) to this Department. Details of items can be had along with the tender forms. The tenders are to reach the undersigned before 5 p.m. on 7-11-2012.

The tenders should be superscribed as Tender No. 13/12, and addressed to the Commandant General, Home Guards Civil Defence and Fire & Rescue Services Headquarters, Housing Board Junction Thiruvananthapuram-I. Late tenders will not be accepted. The tenders will be opened at 11.30 a.m. on 8-11-2012 in the presence of such tenderers or their authorized representatives who may be present at the time.

Intending tenderers may on application to the Commandant General obtain requisite tender form on

which tenders should be submitted. Application for tender forms should be accompanied by the cash/remittance/ money order of 25,000+4% VAT (Round to next Rupee) per copy which is the price fixed by Government and is not refundable under any circumstance. The tender forms are not transferable. The sale of tender forms will be closed at 3 p.m. on 6-11-2012. Neither Cheques, Bank Drafts, Postal Order, Postage Stamps etc. will be accepted towards the cost of tender forms nor will the tender form be send per value payable post. Duplicate tender forms if required will be supplied @ 12,500+4% VAT per copy. The tenders are to ready the general conditions given in the tender forms carefully before the forms are filled up.

Date up to which are to be firm— 31-3-2013.

Kerala Stamp Paper will be supplied to firms out side state if required by a separate cash remittance of 120 Money Order.

കേരള ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ് വകുപ്പിലേക്ക് മിനി വാട്ടർ ടെണ്ടർ ബേസ്ഡ് ഓൺ വാട്ടർ മിസ്റ്റ് ടെക്നോളജി (കിക്ക് റെസ്പോൺസിബിൾ വെഹിക്കിൾ) ഫാബ്രിക്കേറ്റ് ചെയ്യുന്നതിലേക്കായി താൽപ്പര്യമുള്ളവരിൽ നിന്നും മുദ്രവച്ച ദർശാസുകൾ 13/12-ാം നമ്പരായി ക്ഷണിച്ചുകൊള്ളുന്നു. മേൽപ്പടി ദർശാസിന്റെ വിശദവിവരങ്ങൾ ദർശാസിനോടൊപ്പം ലഭിക്കുന്നതാണ്.

അസ്സൽ ദർശാസ് ഫോറത്തിന്റെ വില 25,000 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഈ ഓഫീസിൽ ഒടുക്കേണ്ടതാണ്. ഡ്യൂപ്ലിക്കേറ്റ് ദർശാസ് ഫോറത്തിന്റെ വില 12,500 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഒടുക്കേണ്ടതാണ്. ടെൻഡർ ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും മടക്കിക്കൊടുക്കുന്നതല്ല. ടെൻഡർ ഫോറത്തിന്റെ വിൽപ്പന 6-11-2012, 3 മണിക്ക് അവസാനിക്കുന്നതാണ്. നിശ്ചിത ഫോറത്തിലുള്ള ദർശാസുകൾ 7-11-2012, 5 മണിക്ക് മുൻപായി

ഈ ഓഫീസിൽ ലഭിക്കേണ്ടതാണ്. പ്രസ്തുത തീയതിക്കു ശേഷം ലഭിക്കുന്ന ദർശാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. 8-11-2012, 11.30 മണിക്ക് ദർശാസുകാര്യ ടെയോ അവരുടെ അംഗീകൃത പ്രതിനിധികളുടെയോ സാന്നിധ്യത്തിൽവെച്ച് ദർശാസുകൾ തുറക്കുന്നതായിരിക്കും. ദർശാസ് ഫോറങ്ങൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല.

ഈ ദർശാസിനെ സംബന്ധിച്ച വിശദവിവരങ്ങൾ, വ്യവസ്ഥകൾ, ദർശാസ് ഫോറങ്ങൾ മുതലായവ കമാന്റിന്റേ ജനറൽ, ഫോം ഗാർഡ്സ് സിവിൽ ഡിഫൻസ് ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ്, കേരള, ഹൗസിംഗ് ബോർഡ് ജംഗ്ഷൻ, പുളിമുട് പി. ഒ., തിരുവനന്തപുരം-695 001 എന്ന ഓഫീസറുടെ ഓഫീസിൽ നിന്നും എല്ലാ പ്രവൃത്തി ദിവസങ്ങളിലും വൈകുന്നേരം 5 മണി വരെ ലഭിക്കുന്നതാണ്. ദർശാസ് ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും പോസ്റ്റൽ ഓർഡർ, പോസ്റ്റ് സ്റ്റാമ്പ്, ചെക്ക്, ബാങ്ക് ഡ്രാഫ്റ്റ് എന്നിവയായി സ്വീകരിക്കുന്നതല്ല.

SPECIFICATION

1. TATA 207 Di Pick Crew Cab Duel Cabin Power Steering BS III with 497 Engine chassis supplied by the Department. Fabrication of vehicles should be done at Thiruvananthapuram in our premises (Fire & Rescue Services Headquarters, Thiruvananthapuram.)
 - 1.1. The specification covers the requirements of design manufacture, testing supply of mini water tender based on water mist technology-350 Ltrs. capacity mounted on a prime mover of pay load capacity of 1 Ton.
 2. The tender shall be suitable for fire fighting and capable of being deployed in narrow lanes in urban and rural areas.
 3. Description.
 - 3.1. The vehicle shall comprise of the following components
 - 3.2 Water Mist Fire Fighting system.

3.2.1 The Water Mist Fire Fighting System shall have a filling volume of 300 liters of water and 50 liters of Foam (total 350 ltrs.Maximum) it should be designed to be mounted on most standard pickup and other small vehicles. It should have minimum requirements of space and weight while optimizing on man power requirement and minimizing the water and other collateral damage to negligible in comparison to conventional water tender. The Unit design shall incorporate form induction system which provides variable foam dosing and suction of water from an external source for direct fire lighting of filling of the tank.

3.2.2 Specification/Details of the Unit

Weight of empty 300 Ltrs.Unit	— <150Kgs.(Max.)
Max. Measurements of the unit (in mm)	— As compact as possible
Usable Water capacity	— 300 Ltrs.
Usable Foam capacity	— 50 Ltrs.
No. of deliveries	— 2 Nos.

3.2.3 Main Extinguishing Gun

Flow rate	— 22 Ltrs. 1 min(±5%)
Weight of extinguisher gun	— 2Kgs. Max.
Gun Dimensions	— As compact as possible
Working pressure on the nozzle: 100 bars Max. with nominal reaction. Throw	— Jet not less than 15 mts (±10%)
Spray	— not less than 6m (±10%)
Hose reel	— 60mts (standard) on manual drum
Max. set operating pressure	— 100 bars
Starter	— Electric starter with provision of Pull cord over-ride
Level indicator	— Mechanical.

4. Main Pump

The pump should be capable of suction of water from tank or open source and to maintain adequate discharge rate and pressure for operation of nozzle at optimum efficiency.

Max. Pressure	— 100 Bars.
Min. flow	— 38 l/mm
Power of the engine	— Not less than 13 BHP

Fuel — Unleaded Petrol
An additional High Pressure Pump in the same specification above should also be supplied separately without attaching in the vehicle. The bid amount of Fabrication will cover the cost of this additional H.P. Pump also.

5. Engine

5.1 The prime mover of pump shall be 4-stroke

Petrol driven engine and shall have compatible electrical and lubrication system. The engine should preferably be on 12 V battery for which adequate charger shall also be provided. Suitable electronic instruments shall be provided on the body of engine/panel for fuel level, battery and temperature.

6. **Form Induction**

A suitable means shall be provided for induction of foam from tank so that proportion for single or double delivery remains constant and from quality is maintained. Size of foam tank—50 Ltrs. (Min.) (included in the water tank and rested from the water tank which will remain with 300 litres)

Max. induction—6% (Foam 0.5 to 6 adjustable)

7. **Accessories**

Electric Starter (Enabling the Unit to be Electrically started) 1

Additional hose length of 30 mts. With Drum 1 per set.

Aqueous film forming foam (AFFF)—50 ltrs. filled in the foam Tank and 50 ltrs. spare.

Tool kit comprising of 1 No. adjustable spanner 12", 1 No. cutting plier. 1 set of that spanners, 1 set of adjustable screw driver. 1 set of suction key and other special tools as per the requirement of the unit.

8. **Design & Development**

8.1 Equipment details

8.2 The Water Mist Fire Fighting System will be a self driven fire fighting unit operated with in built Petrol Engine coupled to a pump and attached with a reducer & hose pipes, Mist generating Guns.

8.3 The Water mist System shall be capable of carrying 300 litres of water and Foam tank of 50 made of GRP shape T (in order to reduce the gravity center of the vehicle) and for AFFF a separate system to pump a mix the required ratio, which can be discharged in the form of a mist from a gun.

8.4 The discharge gun shall be of light weight having stainless steel nozzle capable of producing Water Mist with the ability to control the discharge in short burst and long shots.

8.5 The size of mist particle shall be in the range of 150 to 300 microns.

8.6 A suitable pressure reducer with a safety valve. capable of reducing to a low pressure not more than 100 bars & Jerk free working pressure shall be incorporated. The main vessel shall be corrosion free.

8.7 The foam required shall be aqueous film forming foam (AFFF)

8.8 The unit shall have adequate provisions for safety of the system.

9. **Safety Devices**

9.1 The following safety devices shall form part of equipment.

(I) The system shall be provided with pressure safety valve

(II) The system will have proper heat & exhaust outlet for the engine without causing any interference to the operator while operating the unit.

(III) Any other safety device which from felt to be necessary to be a part of the equipment.

10. **Main Water Tank**

10.1 The water tank shall be made of GRP giving a free corrosion for life and a lightweight of the Water Mist System, having useable water storage capacity of 350 Ltrs. (300 for water and 50 Ltrs. capacity for foam) properly baffled into segment to reduce water surge. The water tank shall be T shaped and the thickness of the water tank should be of 5mm minimum.

A manhole of 330mm avec overflow pipe and an optical level of water should be part of the tank. The tank should resist to the flame and be anti ignition complying with the International standards.

11. **Gun**

11.1 The gun shall be provided with suitable stainless steel filter. The discharge rate of main gun shall not be less than 20 ltrs/Main at pressure not exceeding 100 bars. The second gun should have a flow rate not exceeding 20 LPM. The design of gun shall be such that there is no appreciable recoil pressure and the throw shall not be less than 15 mts. (Jet Model) and shall not be less than 6 meters (Spray mode). The second gun shall have an attachment for discharging foam with suitable aeration facility.

12. **Hoses**

12.1 The hoses provided in the system shall be high quality and shall be capable of holding the temp. ranges-20° to +55°C. The material specification, working pressure, test pressure and cracking pressure should be indicated for each type of hose. The minimum length of each hose should be 60 M.

12.2 The seals and O-rings used in the system should be of synthetic material like Nitrile rubber or equivalent.

13. **Marking**

Marking shall have details of capacity, manufacturer's name, month/year of manufacturing of the system etc.

14. **Test of Acceptance of Fire Fighting System**

Physical dimensions, performance & weight check of equipment as given under different items above shall form part of test of acceptance.

CONDITIONS

1. Whether samples are essential	— Pamphlets, Photograph etc. Should be forwarded along with tender.
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2. Period with in which goods should be — Within one month from the date of receipt of Supply Order.
3. Rates should be quoted for the Fabrication work of vehicles at Thiruvananthapuram in out Permits(Fire & Rescue Services Headquarters) — For Trivandrum.
4. Payment — 90% payment against delivery at Thiruvananthapuram in good condition.
5. Other special condition — A guarantee of 12 months from the delivery of item.

(2)

No. F1-161/2012.

4th October 2012.

Sealed tenders are invited for the Purchase of 28 Nos. of Combi Tools to Fire & Rescue Services Department. Details of items can be had along with the tender forms. The tenders are to reach the undersigned before 5 p.m. on 7-11-2012.

Estimate Cost — 70 Lakh.

The tenders should be superscribed as Tender No. 12/2012, and addressed to the Commandant General, Home Guards Civil Defence and Fire & Rescue Services Headquarters, Housing Board Junction, Thiruvananthapuram-I. Late tenders will not be accepted. The tenders will be opened at 11.30 a.m. on 8-11-2012 the presence of such tenderers or their authorized representatives who may be present at the time.

EMD—1%.

Intending tenderers may on application to the Commandant General obtain requisite tender form on which tenders should be submitted. Application for tender forms should be accompanied by the cash remittance, money order of 10,500+4% VAT (Round to next Rupee) per copy which is the price fixed by Government and is not refundable under any circumstance. The tender forms are not transferable. The sale of tender forms will be closed at 3 p.m. on 6-11-2012. Neither cheques, Bank Drafts, Postal Order, Postage Stamps etc. will be accepted towards the cost of tender forms nor will the tender form be send per value payable post. Duplicate Tender forms if required will be supplied @ 5,300+4% VAT per copy. The tenderers are to read the general conditions given in the tender forms carefully before the forms are filled up.

Date upto which rates are to be firm —31-3-2013.

Kerala stamp paper will be supplied to firms out side state if required by a separate cash remittance of 120 Money Order.

കേരള ഫയർ ആന്റ് റെസ്ക്യൂ സർവ്വീസസ് വകുപ്പിലേക്ക് കോമ്പി ടുൾസ്-28 എണ്ണം വിതരണം ചെയ്യുന്നതിലേക്കായി താൽപ്പര്യമുള്ളവരിൽ നിന്നും മുദ്രവച്ച ദർഘാസുകൾ 12/2012-ാം നമ്പരായി ക്ഷണിച്ചുകൊള്ളുന്നു. മേൽപ്പടി ദർഘാസിന്റെ വിശദവിവരങ്ങൾ ദർഘാസിനോടൊപ്പം ലഭിക്കുന്നതാണ്.

അടങ്കൽ തുക — 70 ലക്ഷം.

അസ്സൽ ദർഘാസ് ഫോറത്തിന്റെ വില 10,500 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഈ ഓഫീസിൽ ഒടുക്കേണ്ടതാണ്. ഡ്യൂപ്ലിക്കേറ്റ് ദർഘാസ് ഫോറത്തിന്റെ വില 5,300 + 4% മുല്യാധിഷ്ഠിത നികുതിയും ഒടുക്കേണ്ടതാണ്. ടെൻഡർ ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും മടക്കിക്കൊടുക്കുന്നതല്ല. ടെൻഡർ ഫോറത്തിന്റെ വിൽപ്പന 6-11-2012, 3 മണിക്ക് അവസാനിക്കുന്നതാണ്. നിശ്ചിത ഫോറത്തിലുള്ള ദർഘാസുകൾ 7-11-2012, 5 മണിക്ക് മുൻപായി ഈ ഓഫീസിൽ ലഭിക്കേണ്ടതാണ്. പ്രസ്തുത തീയതിക്കുശേഷം ലഭിക്കുന്ന ദർഘാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. 8-11-2012, 11.30 മണിക്ക് ദർഘാസുകാരുടെയോ അവരുടെ അംഗീകൃത പ്രതിനിധികളുടെയോ സാന്നിധ്യത്തിൽ വച്ച് ദർഘാസുകൾ തുറക്കുന്നതായിരിക്കും. ദർഘാസ് ഫോറങ്ങൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല.

നിരതദ്രവ്യം — ഒരു ശതമാനം.

വില നിജമായിരിക്കുന്ന തീയതി—31-3-2013.

ഈ ദർഘാസിനെ സംബന്ധിച്ച വിശദവിവരങ്ങൾ, വ്യവസ്ഥകൾ, ദർഘാസ് ഫോറങ്ങൾ മുതലായവ കമാണ്ടന്റ് ജനറൽ, ഹോം ഗാർഡ്സ് സിവിൽ ഡിഫൻസ് ഫയർ ആന്റ് റെസ്ക്യൂ സർവ്വീസസ്, ഹൗസിംഗ് ബോർഡ് ജംഗ്ഷൻ, പുളിമുട് പി. ഒ., തിരുവനന്തപുരം-695 001 എന്ന ഓഫീസറുടെ ഓഫീസിൽ നിന്നും എല്ലാ പ്രവൃത്തി ദിവസങ്ങളിലും വൈകുന്നേരം 5 മണി വരെ ലഭിക്കുന്നതാണ്. ദർഘാസ് ഫോറത്തിന്റെ വില യാതൊരു കാരണവശാലും പോസ്റ്റൽ ഓർഡർ, പോസ്റ്റ് സ്റ്റാമ്പ്, ചെക്ക്, ബാങ്ക് ഡ്രാഫ്റ്റ് എന്നിവയായി സ്വീകരിക്കുന്നതല്ല.

SPECIFICATION

The rescue tool shall be designed for spreading, cutting during Rescue Operation:

1. The rescue tool shall be self-contained device with integrated hand pump.
2. It shall be hydraulically operated, lightweight and capable of being operated by one person
3. The operating system shall have the best ergonomics of functioning. The "Tool Head" or the Handle shall be rotatable at 180 deg. in any direction. It should have a self locking or manual locking system.
4. The rescue tool shall be independent from any outside power source and be operated only by a hand lever integrated in the tool itself. The operation shall be extremely user friendly possible by the same person who holds the tool.
5. The head or the handle of rescue tool should rotate 180 Deg. and should be locked in any desired position.
6. Minimum spreading force at the tips in closed position shall not be less than 2.5 tons. Maximum spreading force shall not be less than 12 tons.
7. Spreading distance at the tips shall not be less than 255 mm.

8. Cutting capacity in the recess shall be able to cut 21 mm steel bars.
9. The maximum cutting force shall not be less than 200 KN.
10. Weight of ready to use unit with shoulder strap should not be more than 12 Kg.
11. The blades shall be of impact free cutting design to overcome the flying of metal pieces during cutting process. .
12. The blades shall be able to bite firmly into the work piece and resist any tendency for it to slide forward under the cutting action.
13. The blades of the tool shall be made of drop forged tooling steel and must be one piece without loose parts.
14. The tips of the blade arms must be serrated inside and outside for firm grip during spreading or squeezing.
15. The tool shall be capable of working under extreme conditions, high dusty environment, high humidity and temperature range from - 15 Deg C to + 70 Deg C. The tool shall be capable of working also in under water conditions up to a depth of approx 40 mtr.

CONDITIONS

1. Whether samples are essential — Pamphlets, Photograph etc. Should be forwarded along with tender.
2. Period with in which goods should be delivered — Within one month from the date of supply order.
3. Rates should be quoted for the deliver including transporting charge of the chassis to Kerala Fire & Rescue Services Headquarters — For Trivandrum.
4. Payment — 90% payment against delivery at Thiruvananthapuram in good condition.
5. Other special condition — A guarantee of 12 months from the delivery of item.

Office of the Commandant General,
Home Guards, Civil Defence,
Fire and Rescue Services,
Housing Board Junction, Pulimood P. O., (Sd.)
Thiruvananthapuram-695 001. *Commandant General.*
